



High Swim Risk on Labor Day



Slide #1 Posted: Sept 1 2013 – 3pm EDT

Event Summary

Waves will build starting after midnight tonight

Large Waves and Dangerous Currents expected Labor Day

Waves of 3 to 6 feet persisting all day on Labor Day

High Swim Risk at all West Michigan beaches Labor Day



weather.gov/grandrapids



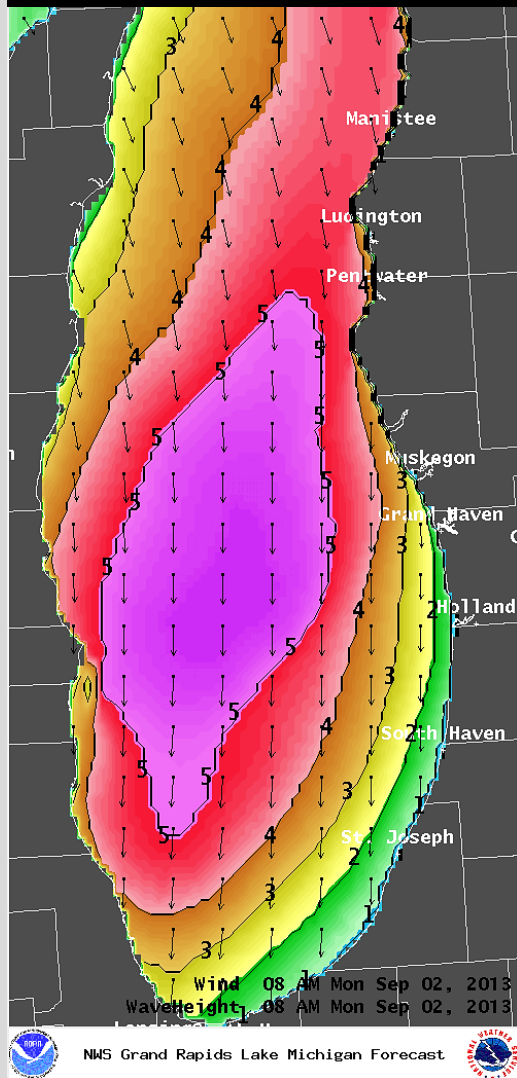


High Swim Risk on Labor Day



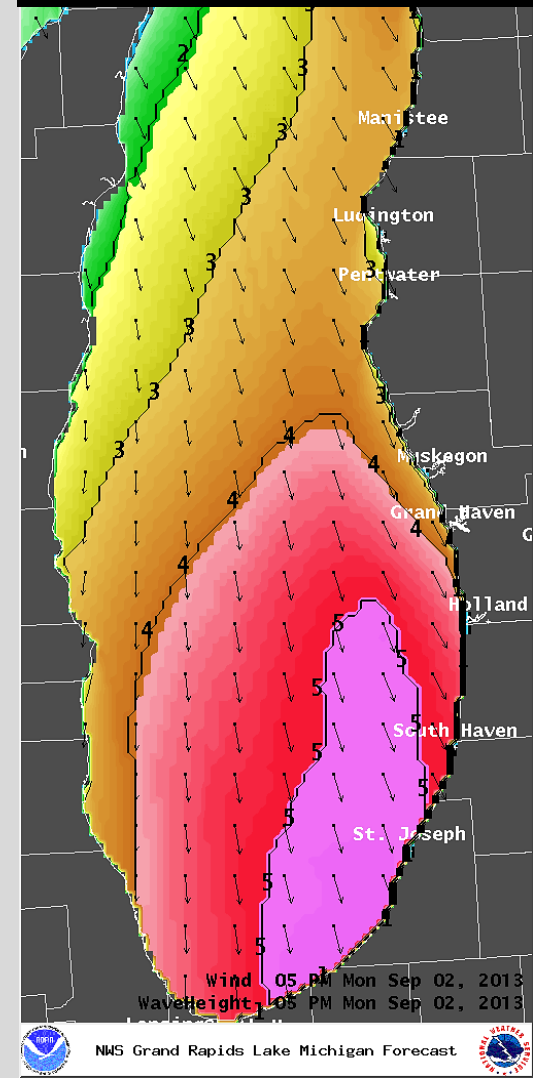
Slide #2 Posted: Sept 1 2013 – 3pm EDT

Wave Heights 8AM MON



- Dangerous Swimming Conditions expected Labor Day
- High Waves and Dangerous Currents
- Waves of 3-6 feet are forecast
- North-Northwest Winds 15-25 mph
- Longshore currents, structural currents expected
- Rip currents possible
- North sides of north piers will be dangerous places to swim
- Waves will diminish Tuesday

Wave Heights 5PM MON



weather.gov/grandrapids



High Swim Risk on Labor Day



Slide #3 Posted: Sept 1 2013 – 3pm EDT

Marine Threat Assessment

Large Waves	High	✓	Medium	Low
Structural Currents	High	✓	Medium	Low
Longshore Currents	High	✓	Medium	Low
Rip Currents	High		Medium	Low
Impact Level	High		Medium	Low

Overall impact level is slightly lower (Medium) do to cooler temperatures and some potential cloud cover, which may tend to keep down the beach population.



weather.gov/grandrapids





High Swim Risk on Labor Day



Slide #4 Posted: Sept 1 2013 – 3pm EDT

Event Summary	High Swim Risk Late Tonight through Labor Day <ul style="list-style-type: none">• Large Waves (3-6ft) building late tonight and continuing through Labor Day• Dangerous Currents are expected• Structural Currents... especially hazardous on the north side of north piers
Hazardous Conditions	<ul style="list-style-type: none">• Begin: Monday 2am• Peak: Monday 10am until 7pm• End: After dark on Labor Day
Threat Area	<ul style="list-style-type: none">• All beaches and piers from St. Joseph to Manistee• Greatest Risk for Dangerous Currents: North Side of North Piers
High Impact Beaches	<ul style="list-style-type: none">• Stearns Park in Ludington• Mears State Park in Pentwater• Muskegon State Park• Holland State Park• North Beach in South Haven

weather.gov/grandrapids



Beach Hazards Summary for Labor Day



Slide #5 Posted: Sept 1 2013 – 3pm EDT

- **Large Waves and Dangerous Currents expected**
- **Waves of 3 to 6 feet persisting all day**
- **High Swim Risk at all West Michigan beaches**
- **Beach population may be kept down due to cool temperatures and potential cloud cover**



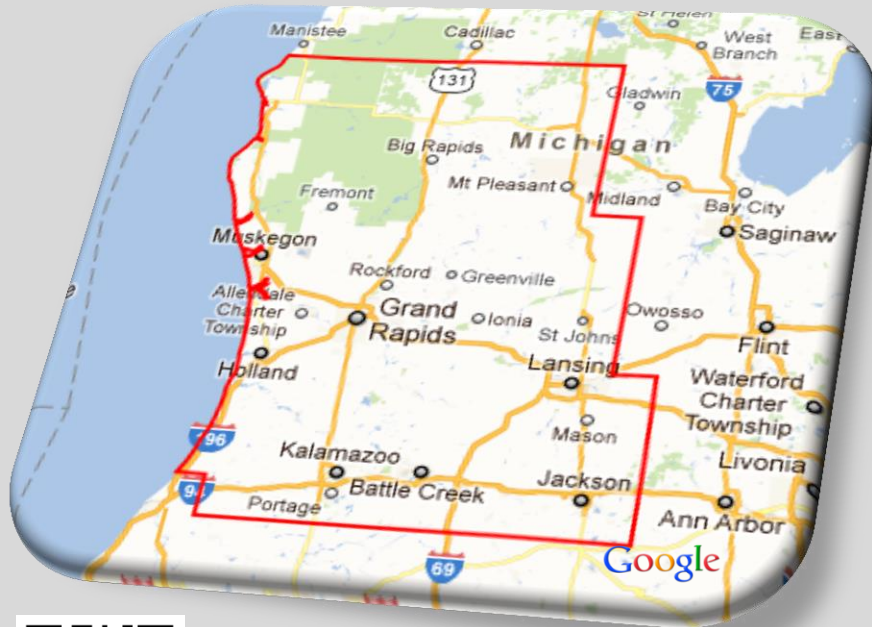
weather.gov/grandrapids





For Additional Information

Click the Links Below



Beach Hazard Briefing Slides
www.weather.gov/grr/webinars

Recreational Beach Forecast
www.crh.noaa.gov/grr/marine/surf

Lake Michigan Wave Forecast Model
www.glerl.noaa.gov/res/glcfs

Lakeshore and Buoy Observations
www.ndbc.noaa.gov/maps

Beach Observations
<http://go.usa.gov/jKMw>

NOAA National Weather Service - Grand Rapids, Michigan



National Weather Service
Grand Rapids



@NWSGrandRapids

www.weather.gov/grandrapids

Email: w-grr.webmaster@noaa.gov

Phone: 616-949-0643



Weather-Ready Nation